BEXIS 2.0.0
Installation Manual

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1. BExIS Package

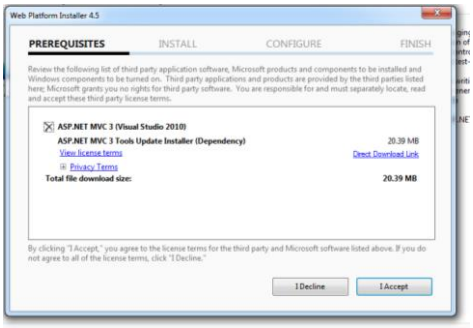
- Download BEXIS 2.0.0 package
- Unzip BEXIS 2.0.0
- Copy Workspace folder to C:\ (default)

2. .NET Framework 4.0

- Open ..\Required Installations\.NET 4 and start "**dotNetFx40_Full_x86_x64"** as admin
- Or download it under this link Download .net Framework 4.0
- follow the steps in the installation window

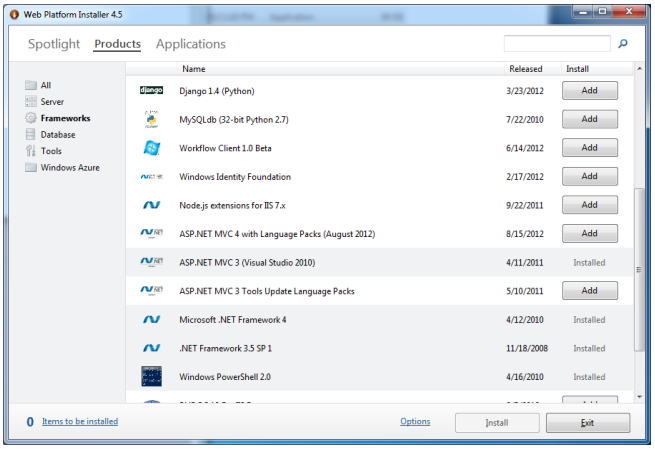
3. ASP.NET MVC 3

- Open ..\Required Installations\MVC3 and start "**MVC3**" as admin
- Or download it under this link Download ASP.NET MVC 3
- follow the steps in the installation window



1 First step shows the prerequisites of mvc3

- After the Prerequisites window a window open with some installation options
- Go to **Products**
- Select **Frameworks**
- Here you need to found **MVC3** and **.NET 4**
- If this not installed click on the add button and start the installation

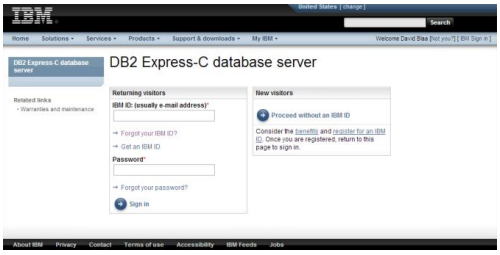


4. DB2 Express 10.1

4.1 Download Db2 Express C 10

Open one of the following links:

32Bit Version: Download DB2 Express-C 32Bit
64Bit Version: Download DB2 Express-C 64Bit



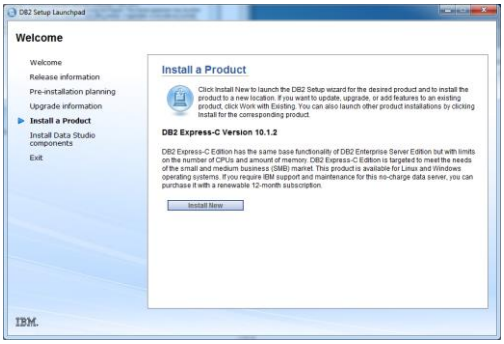
2Download Db2 Express C 10

Log in with the IBM user account.
If you have no IBM user account, you need to create one.
user registration

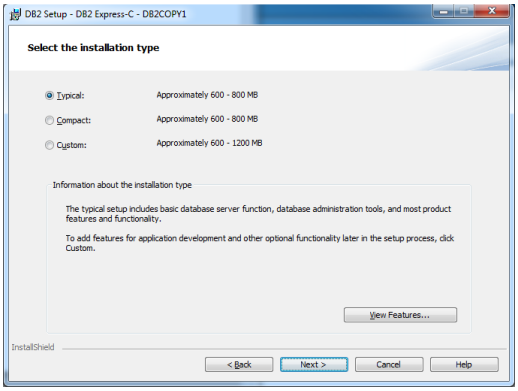
Select and download **DB2 Express-C**
32Bit: db2_v1012_win_expc.exe (425MB)
64Bit: db2_v1012_winx64_expc.exe (507 MB)

4.2 Installation of Db2 Express C 10

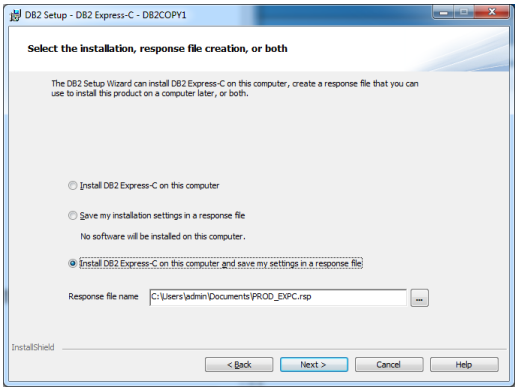
- Unzip package
- Installation Manager starts after unzip is finished



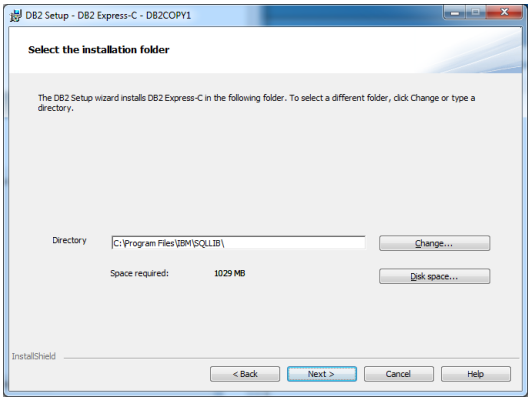
- Choose the installation type – typical is enough


DB2 Setup - DB2 Express-C - DB2COPY1
Select the installation type
Typical:
Approximately 600 - 800 MB
Compact:
Approximately 600 - 800 MB
Custom:
Approximately 600 - 1200 MB
Information about the installation type
The typical setup includes basic database server function, database administration tools, and most product features and functionality.
To add features for application development and other optional functionality later in the setup process, click Custom.
View Features...
InstallShield
< Back
Next >
Cancel
Help

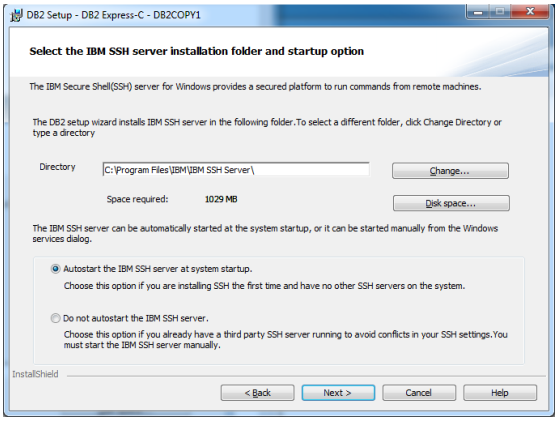
- Select Installation or response file or both


DB2 Setup - DB2 Express-C - DB2COPY1
Select the installation, response file creation, or both
The DB2 Setup Wizard can install DB2 Express-C on this computer, create a response file that you can use to install this product on a computer later, or both.
Install DB2 Express-C on this computer
Save my installation settings in a response file
No software will be installed on this computer.
Install DB2 Express-C on this computer and save my settings in a response file
Response file name
C:\Users\admin\Documents\PROD_EXPC.rsp
InstallShield
< Back
Next >
Cancel
Help

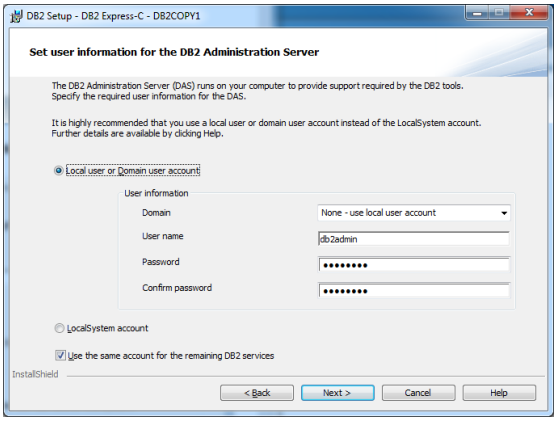
- Select the installation folder (use the default path)



- Use default


DB2 Setup - DB2 Express-C - DB2COPY1
Select the IBM SSH server installation folder and startup option
The IBM Secure Shell(SSH) server for Windows provides a secured platform to run commands from remote machines.
The DB2 setup wizard installs IBM SSH server in the following folder.To select a different folder, click Change Directory or type a directory
Directory
C:\Program Files\IBM\IBM SSH Server\
Change...
Space required:
1029 MB
Disk space...
The IBM SSH server can be automatically started at the system startup, or it can be started manually from the Windows services dialog.
Autostart the IBM SSH server at system startup.
Choose this option if you are installing SSH the first time and have no other SSH servers on the system.
Do not autostart the IBM SSH server.
Choose this option if you already have a third party SSH server running to avoid conflicts in your SSH settings.You must start the IBM SSH server manually.
InstallShield
< Back
Next >
Cancel
Help

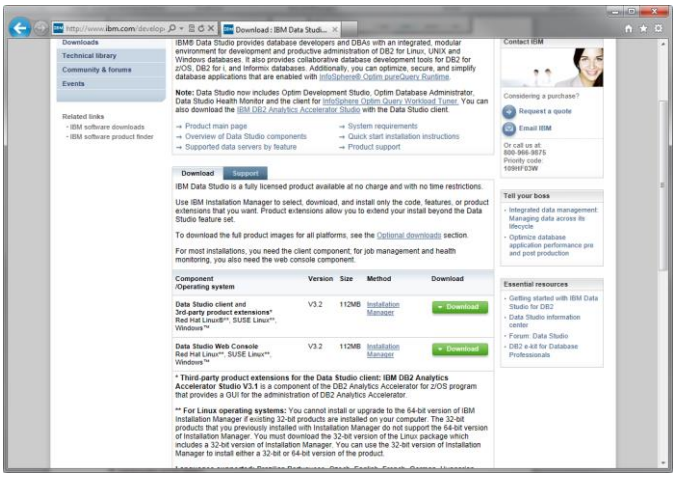
- Define the db2admin password
  please make a note of the db2admin password


DB2 Setup - DB2 Express-C - DB2COPY1
Set user information for the DB2 Administration Server
The DB2 Administration Server (DAS) runs on your computer to provide support required by the DB2 tools.
Specify the required user information for the DAS.
It is highly recommended that you use a local user or domain user account instead of the LocalSystem account.
Further details are available by clicking Help.
Local user or Domain user account
User information
Domain
None - use local user account
User name
db2admin
Password
Confirm password
LocalSystem account
Use the same account for the remaining DB2 services
InstallShield
< Back
Next >
Cancel
Help

- After the installation you should see the this screen

4.3 Install IBM Data Studio

- Select "**Download IBM Data Studio**"

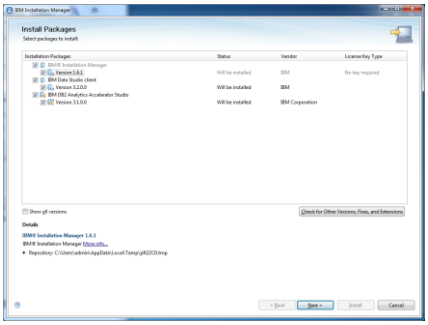


  - Select the first one:

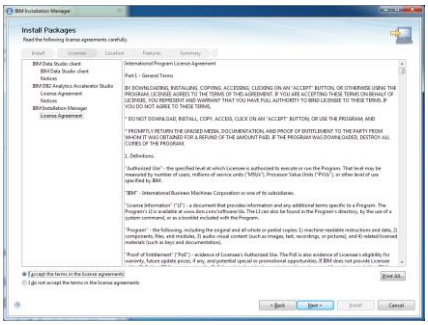
    Data Studio client and
    3rd-party product extensions*
    Red Hat Linux®**, SUSE Linux**, Windows™

    OR

- Start the installer under "**..\BExIS Released Versions\Release 2.0.0\Prerequisites\IBM Data Studio**"
  - Start **IBMIM_win32.exe** as **admin**
- Password from the IBM Account is required
- The IBM Installation Manager
- Select all packages and click next



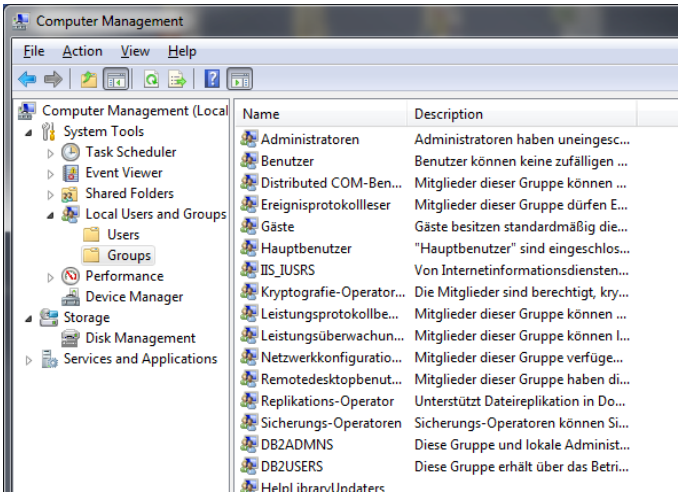
- Accept the license agreements



- Choose directorys for (default is ok)
    - Shared Resources
    - Installation Manager
- Choose the directory for the IBM Data Studio (default is ok)
- Select wanted language
- Choose Configuaration of the help system (Access help from the Web)
- Start to install

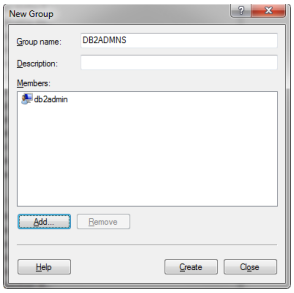
After the installation of Db2 and IBM Data Studio you need to check if the database groups (DB2ADMNS and DB2USERS) registered:

- Control Panel/Administrative Tools/Computer Management / Local Users and Groups



3 Db2 Groups

- If not you need to create tis groups
    - Right click on groups and select new groups
    - First Group “DB2ADMNS” and add the db2admin to this group and select create



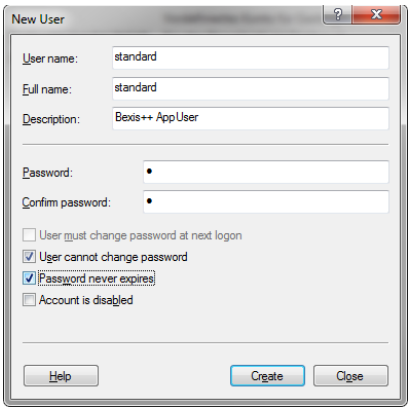
4 Create DB2ADMNS group

- Second Group “DB2Users”

4.4 CREATE Standard App User

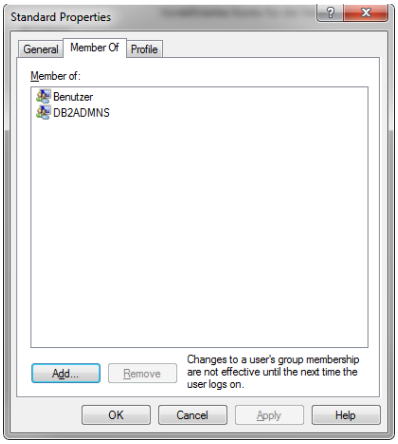
- Go to Control Panel\All Control Panel Items\Administrative Tools and open **Computer Management**
- Go to Local Users and Groups and select the users folder
- Right click on Users folder and open “**New User…**”
- Define the bexis app user called „standard“

Kommentar [ST1]: Was ist mit dem Password? Sollte das dann nicht auch auf „1“ gesetzt werden?



5 Create standard user

- This user must be a member of the group DB2Admns
- Right click on standard user and open properties
- Select the “**Member Of**” tab
- Select the Add Button and add the DB2ADMNS group

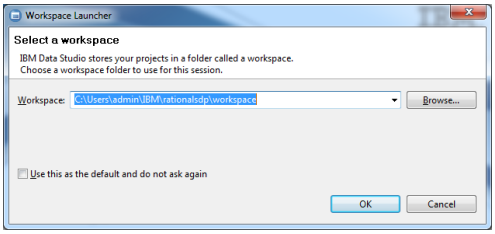


6 Add standard user to Db2Admns group

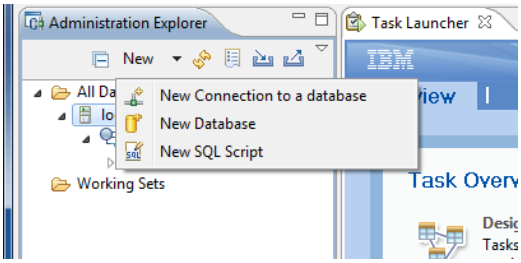
4.5 Create empty database

- Open IBM Data Studio as admin

- by the first run the IBM Data Studio ask for a workspace, use the selected one

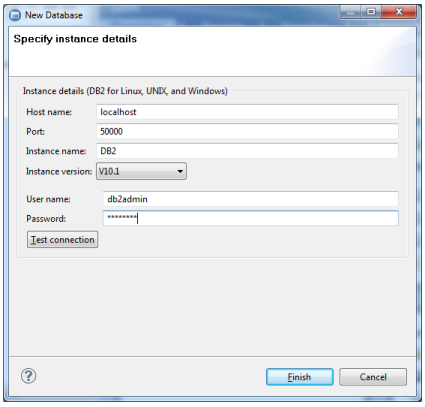

Workspace Launcher
Select a workspace
IBM Data Studio stores your projects in a folder called a workspace.
Choose a workspace folder to use for this session.
Workspace:
C:\Users\admin\IBM\rationalsdp\workspace
Browse...
Use this as the default and do not ask again
OK
Cancel

- On the left side you find all databases
- Over this there is a dropdown button “New”
- Select this button and choose “New Database”

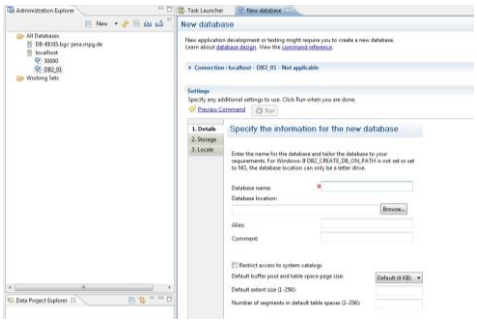


- Now connect to your instance
- Default Values
  - **Host Name:** **localhost**
  - **Port:** **50000**
  - **Instance:** **DB2**

- Choose Version 10.1
- Add db2admin with password and test connection

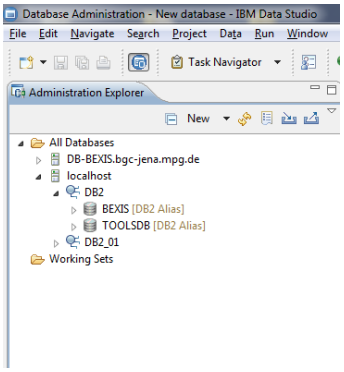


7 Connect to Instance



8 Create new database

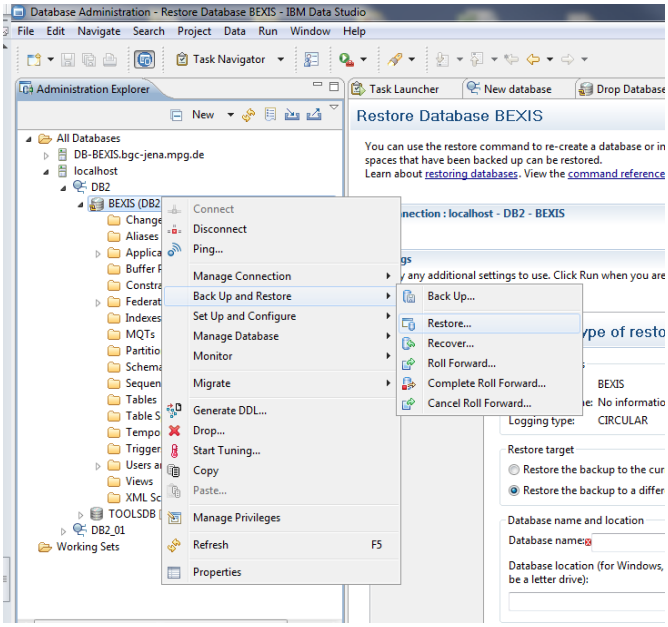
- Call your Database BEXIS and select “Run”
- Enter your db2admin password again
- After successful create you will see the BEXIS database under your Instance in the left side



9 Db2 Instance with new BExIS database

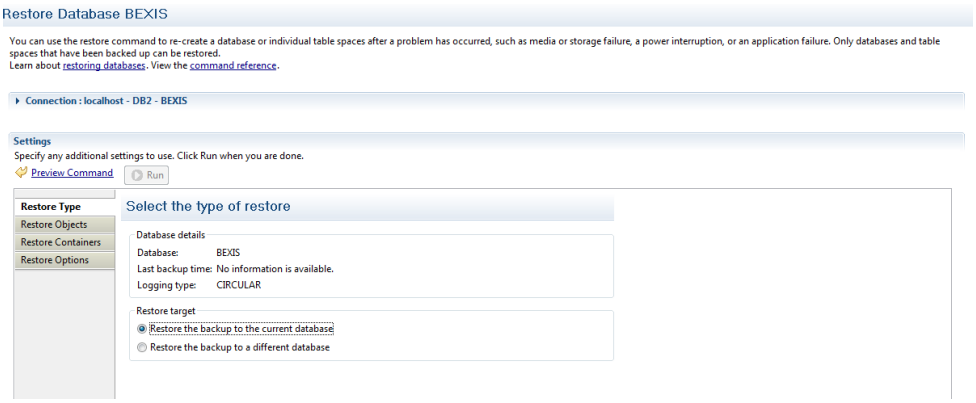
4.6 Create database from backup

- Unzip Backup "**BEXIS.0.DB2.NODE0000.CATN0000.20130227113636**" under
    - **..\BExIS Released Versions\Release 2.0.0\Database_Backups\DB2**
- Connect to your Database (right click on Database Name and choose connect)
- Again right click on Database Name and go to "Back Up and Restore" and select Restore



10 Backup and Restore

- Here you see your selected database

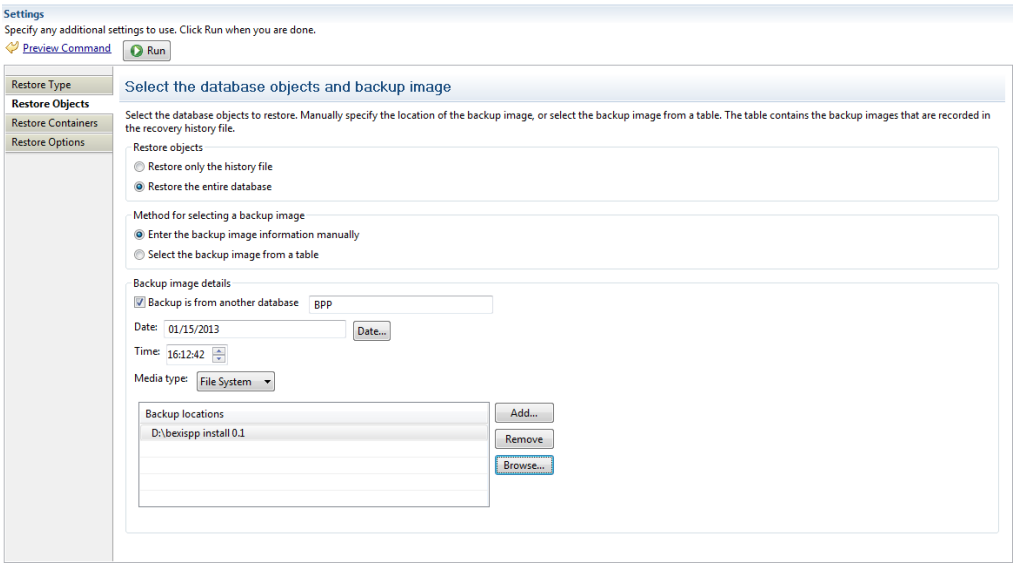

Restore Database BEXIS
You can use the restore command to re-create a database or individual table spaces after a problem has occurred, such as media or storage failure, a power interruption, or an application failure. Only databases and table spaces that have been backed up can be restored.
Learn about restoring databases. View the command reference.
Connection : localhost - DB2 - BEXIS
Settings
Specify any additional settings to use. Click Run when you are done.
Preview Command
Run
Restore Type
Restore Objects
Restore Containers
Restore Options
Select the type of restore
Database details
Database: BEXIS
Last backup time: No information is available.
Logging type: CIRCULAR
Restore target
Restore the backup to the current database
Restore the backup to a different database

11 Retore Backup step 1

- Go to your "**..\BExIS Released Versions Folder**"
    - Here you see a File called "**BEXIS.0.DB2.NODE0000.CATN0000.20130301190238**"
    - **BEXIS** – Database Name
    - **20130301** – date of the Image
    - **190238** – time of the image

- Go to “**Restore Objects**” and select in the “**Method for selecting a backup image**” Section “**Enter the backup image information manually**”
- Click on the Checkbox “**Backup is from another database**” and write the database name from the image “**BEXIS**” inside
- Select the date like this from the image
- Select the time like this from the image
- Click on the “**Add…**” Button
- Click on **“<Sepcify Backup location>”** and click the **“Browse…”** Button and select the Image file from the **“..\BExIS Released Versions\Release 2.0.0\Database_Backups\DB2”**:

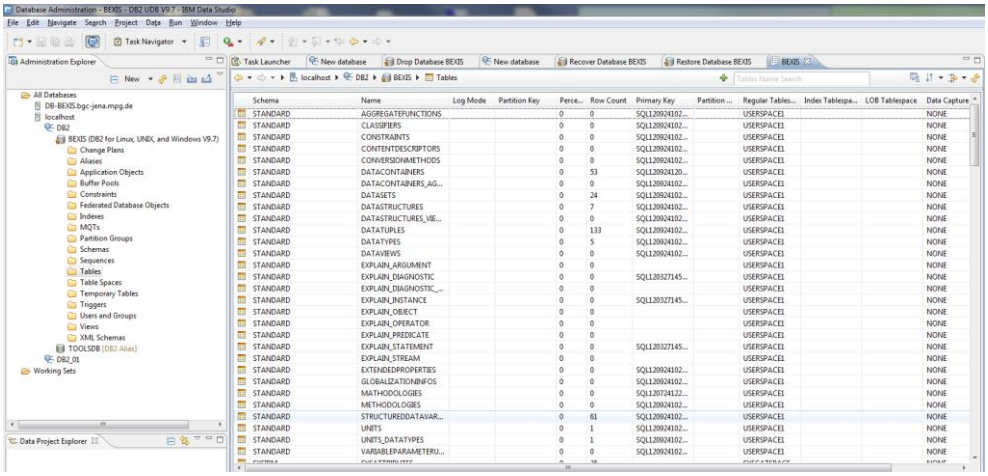
  After this configuration it must look like this picture


Settings
Specify any additional settings to use. Click Run when you are done.
Preview Command
Run
Restore Type
Restore Objects
Restore Containers
Restore Options
Select the database objects and backup image
Select the database objects to restore. Manually specify the location of the backup image, or select the backup image from a table. The table contains the backup images that are recorded in the recovery history file.
Restore objects
Restore only the history file
Restore the entire database
Method for selecting a backup image
Enter the backup image information manually
Select the backup image from a table
Backup image details
Backup is from another database
BPP
Date:
01/15/2013
Date...
Time:
16:12:42
Media type:
File System
Backup locations
D:\bexispp install 0.1
Add...
Remove
Browse...

12 Configure the restore process from Db2

- Select the “**Run**” Button

After successful restore your database “**BEXIS**” need to have all tables from the schema “**Standard**”

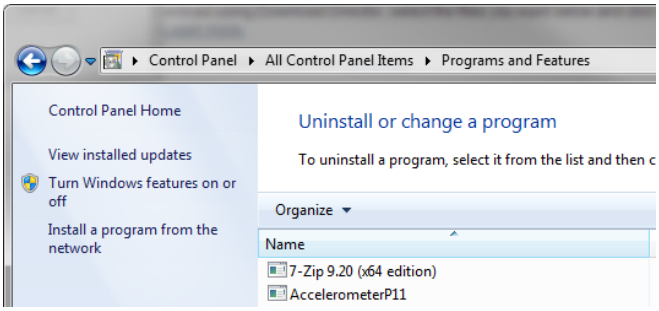

Database Administration - BEXIS - DB2 UDB V9.7 - IBM Data Studio
File Edit Navigate Search Project Data Run Window Help
Task Navigator
Administration Explorer
Task Launcher
New database
Drop Database BEXIS
New database
Recover Database BEXIS
Restore Database BEXIS
BEXIS
All Databases
DB-BEXIS.bgc-jena.mpg.de
localhost
DB2
BEXIS (DB2 for Linux, UNIX, and Windows V9.7)
Change Plans
Aliases
Application Objects
Buffer Pools
Constraints
Federated Database Objects
Indexes
MQTs
Partition Groups
Schemas
Sequences
Tables
Table Spaces
Temporary Tables
Triggers
Users and Groups
Views
XML Schemas
TOOLSDB (DB2 Alias)
DB2_01
Working Sets
Data Project Explorer
localhost ▸ DB2 ▸ BEXIS ▸ Tables
Schema Name Log Mode Partition Key Perce... Row Count Primary Key Partition ... Regular Tables... Index Tablespa... LOB Tablespace Data Capture
STANDARD AGGREGATEFUNCTIONS 0 0 SQL120924102... USERSPACE1 NONE
STANDARD CLASSIFIERS 0 0 SQL120924102... USERSPACE1 NONE
STANDARD CONSTRAINTS 0 0 SQL120924102... USERSPACE1 NONE
STANDARD CONTENTDESCRIPTORS 0 0 SQL120924102... USERSPACE1 NONE
STANDARD CONVERSIONMETHODS 0 0 SQL120924102... USERSPACE1 NONE
STANDARD DATACONTAINERS 0 53 SQL120924120... USERSPACE1 NONE
STANDARD DATACONTAINERS_AG... 0 0 SQL120924102... USERSPACE1 NONE
STANDARD DATASETS 0 24 SQL120924102... USERSPACE1 NONE
STANDARD DATASTRUCTURES 0 7 SQL120924102... USERSPACE1 NONE
STANDARD DATASTRUCTURES_VIE... 0 0 SQL120924102... USERSPACE1 NONE
STANDARD DATATUPLES 0 133 SQL120924102... USERSPACE1 NONE
STANDARD DATATYPES 0 5 SQL120924102... USERSPACE1 NONE
STANDARD DATAVIEWS 0 0 SQL120924102... USERSPACE1 NONE
STANDARD EXPLAIN_ARGUMENT 0 0 USERSPACE1 NONE
STANDARD EXPLAIN_DIAGNOSTIC 0 0 SQL120327145... USERSPACE1 NONE
STANDARD EXPLAIN_DIAGNOSTIC_... 0 0 USERSPACE1 NONE
STANDARD EXPLAIN_INSTANCE 0 0 SQL120327145... USERSPACE1 NONE
STANDARD EXPLAIN_OBJECT 0 0 USERSPACE1 NONE
STANDARD EXPLAIN_OPERATOR 0 0 USERSPACE1 NONE
STANDARD EXPLAIN_PREDICATE 0 0 USERSPACE1 NONE
STANDARD EXPLAIN_STATEMENT 0 0 SQL120327145... USERSPACE1 NONE
STANDARD EXPLAIN_STREAM 0 0 USERSPACE1 NONE
STANDARD EXTENDEDPROPERTIES 0 0 SQL120924102... USERSPACE1 NONE
STANDARD GLOBALIZATIONINFOS 0 0 SQL120924102... USERSPACE1 NONE
STANDARD MATHODOLOGIES 0 0 SQL120724122... USERSPACE1 NONE
STANDARD METHODOLOGIES 0 0 SQL120924102... USERSPACE1 NONE
STANDARD STRUCTUREDDATAVAR... 0 61 SQL120924102... USERSPACE1 NONE
STANDARD UNITS 0 1 SQL120924102... USERSPACE1 NONE
STANDARD UNITS_DATATYPES 0 1 SQL120924102... USERSPACE1 NONE
STANDARD VARIABLEPARAMETERU... 0 0 SQL120924102... USERSPACE1 NONE

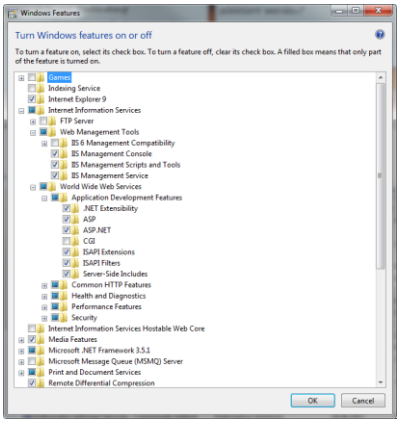
13 Database with standard tables

5. Setup Website with IIS 7

5.1 Active IIS7

- Open Control Panel/Programs and Features
- Click on the "Turn Windows features on/off" on the left side


Control Panel ▸ All Control Panel Items ▸ Programs and Features
Control Panel Home
View installed updates
Turn Windows features on or off
Install a program from the network
Uninstall or change a program
To uninstall a program, select it from the list and then c
Organize
Name
7-Zip 9.20 (x64 edition)
AccelerometerP11



- At first select "Internet Information Service" and open this node
- Open "Web Management Tools " and select
  - IIS Management Console
  - IIS Management Scripts and Tools
  - IIS Management Service
- Open "World Wide Web Services" / "Application Development Features" an select
  - .Net Extensibility
  - Asp
  - Asp .NET
- Select the "OK" Button

5.2 Register .Net Framework 4.0

- Update .Net 4.0 Framework in IIS7
  - Open cmd as administrator
  - %windir%\Microsoft.NET\Framework64\v4.0.30319\aspnet_regiis.exe –ir

- or run "aspnet_regiis.exe" as admin under **"..\BExIS Released Versions\Release 2.0.0\Utils"**

- Set ASP .NET4 to Network Service

Open **IIS**
- Select **Application Pools** and right click in "**ASP .NET v4.0**" and select "**Set Application Pool Defaults…**"

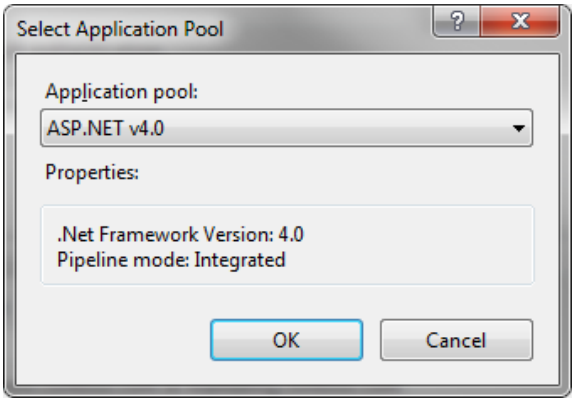
- Process Model – Identity change to "**NetworkService**"

5.3 Create Website

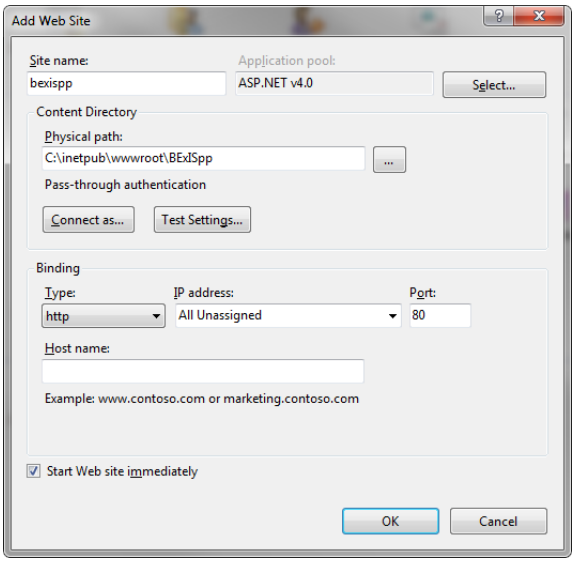
- Copy the Application folder under **X:\BExIS Released Versions\Release 2.0.0** to C:\inetpub\wwwroot

- Open Control Panel / Administrative Tools / Internet Information Services (IIS) Manager

- Create a new Website (right click on sites)
- Select Application pool ASP .NET v4.0 integrated



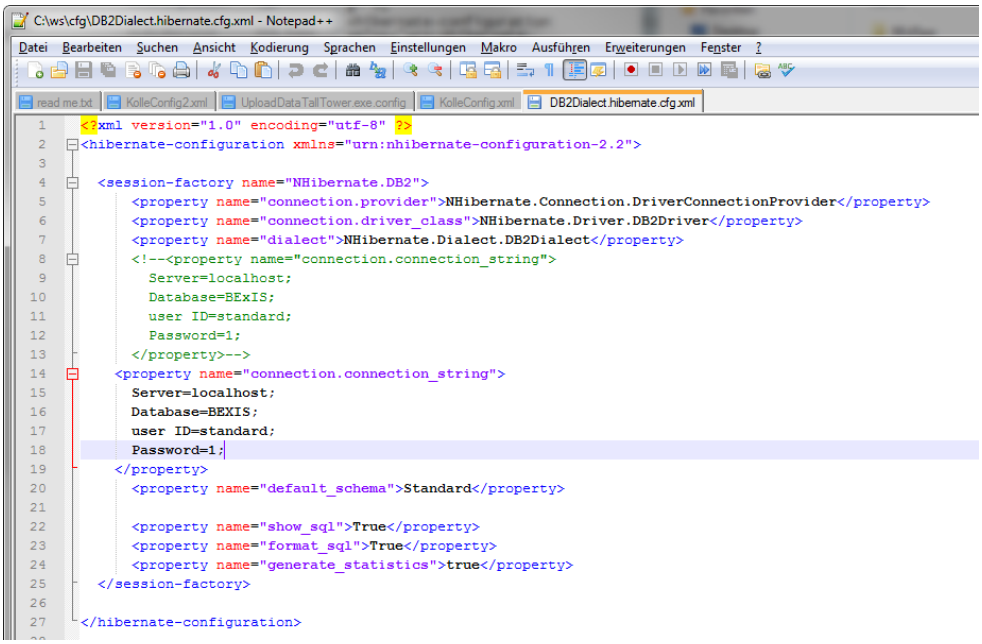
- Select physical path: C:\inetpub\ wwwroot\ Application



- Confirm your selections by pressing the ok button
- Stop Default Website and Run the BExISpp Website
- If you create an empty database and want that the system build all needed tables
    - Select your Website
    - Go to the application settings and set “CreateDatabase” to “true“
    - When you run the Website the database creates the tables
    - **ATTENTION!! If you are working with an existing database with data inside the database will be cleared**
    - After the first run, go to the application settings and set “CreateDatabase” to false

- Configure db2 connection

- Open file “DB2Dialect.hibernate.cfg” under “**C:\Workspace\General\Db\Settings\DB2Dialect.hibernate.cfg**” in an Editor
- Configure “Database” and “Server”
- Configure “User” and “Password”



5.4 Start Website

- Select your Website in the II7 (bexispp)
- Select on the left side in the IIS Browse *:80 (http) or open the browser connect to localhost

6. Errors

ERROR [08004][IBM] SQL30061

- Check if database exist. If not create this database
- If you user more than one instances of db2 you need to add to port number to the server name in the connection string
    - Localhost:50001

ERROR [08001][IBM] SQL30081n

- Please check if the Database Instance is running.
- If not, start the instance

ERROR HTTP-ERROR 403.14

- .Net is not registered for IIS 7
- Open the BEXIS 2.0.0 folder and start **aspnet_regiis.exe** as admin

ERROR HTTP- ERROR 404.2

- change apppool in II7 to integrated (asp.net 4)

ERROR SQL1159

- Initialization error with DB2 .NET Data Provider, reason code 10...
  for user 'IIS APPPOOL\ASP.NET v4.0'

- has something to do with App pool identity. Set the app pool identity as "Network service", this group has already read access to C:\Program Files\IBM\SQLLIB\BIN

- Open **IIS**
- Select **Application Pools** and right click in "**ASP .NET v4.0**" and select "**Set Application Pool Defaults…**"

- Process Model – Identity change to "**NetworkService**"